

REMARKS

Applicant respectfully requests reconsideration of this application and consideration of the following remarks.

The drawings were objected to because suitable descriptive legends should be used where necessary for understanding of the drawing. Proposed drawing corrections are submitted with the response.

The abstract of the disclosure was objected to because of the length of the abstract. The abstract of the disclosure is amended to reduce the length.

Claims 5-8 were objected to for the lack of an "and" preceding the last limitation. Claims 1-5 were rejected under 35 U.S.C. 102(e) as being anticipated by Cronin III et al. (U.S. Patent No. 6,182,127, referred to as Cronin). Claims 6-7 were rejected under 35 U.S.C. 103(a) as being unpatentable over Cronin in view of Kahn et al. (U.S. Patent No. 6,404,416, referred to as Kahn). Claim 8 was rejected under 35 U.S.C. 103(a) as being unpatentable over Cronin in view of Gardell et al. (U.S. Patent No. 6,049,831, referred to as Gardell). Claims 1-8 are canceled. Claims 9-68 are added. Thus, claims 9-68 are pending. No new matter is added.

In at least one embodiment of the present invention, a server can have multiple virtual desktops. A user connected from a remote device can use a virtual desktop on a server to access the resources on the server, such as storage spaces, software applications, documents, graphical user interfaces, and others. Similar to a typical graphical desktop environment that is typically displayed on a desktop computer to provide a user a graphical user interface to the desktop computer, a virtual desktop on the server is provided as a graphical user interface to the server for the user using a palm top device. The server generates an image of the virtual desktop to show the current state of the virtual desktop (e.g., the start button, the start menu, a word processing program). The

image of the virtual desktop in connection with the palm top device is transmitted to the palm top device for display. A user can provide inputs, such as click, double-click, drag-and-drop, and others, with respect to the displayed image of the virtual desktop on the palm top device. The palm top device sends messages to the server to perform the corresponding operations on the virtual desktop. After the corresponding operations are applied at the server to the virtual desktop, the server generates and sends the updated image of the virtual desktop to the palm top device. The palm top device can receive sections of an image in a compressed format according to a display priority. The image can be larger than the display area of the palm top device; and, the image can be scrolled at the exclusive control of the palm top device.

Claim 9 recites:

9. A method to access a remote host, the method comprising:
 - receiving, at a device, a first image of a virtual desktop from the remote host, the first image being received in a compressed image format, the virtual desktop representing a graphical desktop environment for controlling the remote host, the first image of the virtual desktop being generated by the remote host to indicate a state of the virtual desktop;
 - converting the first image from the compressed image format to a decompressed image format to display the first image;
 - receiving, at the device, user input with respect to the first image;
 - sending a first message indicating the user input to the remote host for the remote host to apply the user input to the virtual desktop; and
 - receiving, at the device, a second image of the virtual desktop from the remote host, the second image indicating a state of the virtual desktop after the user input is applied to the virtual desktop.

Claim 21 recites:

21. A method to serve a remote device, the method comprising:
 - generating, at a host, a first image of a virtual desktop to indicate a state of the virtual desktop, the virtual desktop representing a graphical desktop environment for controlling the host;
 - sending the first image in a compressed image format to the remote device;
 - receiving a first message from the remote device, the first message indicating user input received with respect to the first image;
 - applying the user input to the virtual desktop at a location corresponding to a location at which the user input is received with respect to the first image at the remote device;
 - generating, at the host, a second image of the virtual desktop, the second image indicating a state of the virtual desktop after the user input is applied to the virtual desktop; and
 - sending the second image of the virtual desktop to the remote device.

Claims 29 and 41 recite machine readable media containing computer instructions for performing the methods of claims 9 and 21; and, claim 49 and 61 recite apparatuses for performing the methods of claims 9 and 21. Claims 10-20, 22-28, 30-40, 42-48, 50-60 and 62-68 depend from claims 9, 21, 29, 41, 49 and 61, respectively.

Applicant respectfully submits that Cronin does not anticipate the pending claims. Cronin discloses a network image view server. The network image view server receives requests, in Uniform Resource Locator (URL) code from an industry standards-based web browser, for a view of a digital document image file stored on the network image view server. The network image view server identifies the image file, formats selections being requested, composes the requested view into a grid of view tiles, and transmits HTML code for view tiles to the requesting web browser. Cronin does not teach a

method of generating an image of a virtual desktop of a server, where the virtual desktop is a graphical user interface to the server. Cronin does not teach a method to send a message from the remote device to the server about the user input (e.g., click, double-click, drag-and-drop) received with respect to the image displayed on the remote device so that the server can apply the corresponding input to the virtual desktop. Cronin does not teach a method to generate an updated image of the virtual desktop, after applying the user input to the virtual desktop, and to transmit the updated image to the palm top for display, through a wireless communication connection. The tiles of images of a requested digital document image file of Cronin are not related to the image of a virtual desktop at the server. These tiles of images do not represent, nor correspond to, a desktop environment to control the server. Thus, the pending claims are distinguishable over Cronin at least for the above reasons.

Applicant respectfully submits that the aggregated disclosure of Cronin, Kahn and Gardell does not show all the elements of the pending claims.

In summary, applicant believes that the pending claims are distinguishable over the prior art and allowable.

Please charge any shortages or credit any overages to Deposit Account No. 02-2666. Furthermore, if an extension is required, Applicant hereby requests such extension.

Respectfully submitted,

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE ABSTRACT:

Please amend the abstract as indicated below.

[The invention discloses a] A portable device that allows [the user to access] accessing the Internet and World Wide Web wirelessly through a cellular telephone. [The portable device includes a modem that connects to a cellular telephone, thus the portable device connects wirelessly to the Internet.] A host computer, [that] which may also be a Web server, [is connected to the Internet and comprises various software programs to translate and compress] translates and compresses into [bit map] bitmap or raster images the information received from the Internet. The compressed images are sent to the portable device for decompression and display[and the device is capable of decompressing the compressed image. Thus, the user views a bit map image of a Web page]. The portable device [further comprises methods of] accepts pointing and clicking to [on text and images which represent] links to other pages. [All commands that the user enters into] Commands entered by the user at the portable device are sent to the host computer[, which performs the commands] for execution via a virtual browser to generate a new page, which is [and] then rasterized, compressed and sent [rasterizes and compresses the page sends it] to the

portable device. [An alternate embodiment discloses that the display on the palm top device mirrors the entire virtual browser window.]

Alternatively, [The] a user may perform [such events as] clicking and scrolling [on] with respect to the [bit map] image on the device to cause[, however] the actual execution [of the event occurs] in the virtual browser.

[Another embodiment discloses a virtual desktop that the user] The user may access a virtual desktop through the palm top device [and] to create and modify documents.